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## Claims Amendments

Claims 1-15 (Canceled)

16. (Currently Amended): In a method for manufacturing an electronic package having solderable metal bumps as a connecting means, the improvement comprising:

providing a high temperature insulating ceramic substrate selected from the group consisting of aluminum oxide, aluminum nitride, diamond, beryllium oxide, boron nitride, cordierite, mullite, silicon carbide, silicon nitride and glass ceramics, the substrate having metallic pads as a base for the package, the substrate being capable of withstanding processing over 350° C:

depositing a metal on the substrate over the metallic pads, the metal having a melting point over 350 °C, and below the melting point of the metal forming the metallic pads;

melting the <u>deposited</u> metal <u>at a temperature below the melting point of the metallic pads</u>, so that the deposited metal draws back onto the metallic pads, and cooling the deposilted metal, forming metal bumps on the metallic pads.

- 17. (Original): In a method for manufacturing an electronic package having metal bumps according to claim 16, wherein the metal is deposited over the metallic pads in a powdered form.
- 18. (Original): In a method for manufacturing an electronic package having metal bumps

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according to claim 17, wherein the powdered metal is deposited by screen printing.

19. (Original): In a method for manufacturing an electronic package having metal bumps according to claim 16, the improvement comprising:

providing the insulating substrate with metallic pads of metals selected from the group consisting of refractory metals and the metals of Groups 8 and 1b of the Periodic Table of Elements and alloys and combinations of those metals;

depositing a lower melting metal selected from the group consisting of aluminum and aluminum alloys, copper and copper alloys, silver and silver alloys, gold and gold alloys, nickel and nickel alloys and combinations of those metals, over the metallic pads; and

melting the lower melting metal so that it draws back onto the metallic pads, forming metal bumps on the metallic pads.

- 20. (Original): In the method of manufacturing an electronic package according to claim 19, wherein the metal of the metallic pads on the insulating substrate are selected from the group consisting of chromium, molybdenum, nickel, tungsten, molybdenum/manganese and titanium/tungsten.
- 21. (Original): In the method of manufacturing an electronic package according to claim20. wherein the metal being melted to form forming the bumps comprises copper.

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22. (Original):

In the method of manufacturing an electronic package according to claim

20, wherein the metal being melted to form forming the bumps is selected from the group

consisting of silver, gold, silver alloys and gold alloys.

23. (Original): In the method of manufacturing an electronic package according to claim

22, wherein the bumps are coated with a barrier metal capable of preventing the bumps from

dissolving in molten solder.

24. (Original): In the method of manufacturing an electronic package according to claim

23, wherein the barrier metal is coated with a solder aid to enhance solderability

25. (Not entered): In a method for manufacturing an electronic package having metal bumps

according to claim 16, wherein the metal deposited over the metallic pads is applied in the form

of metal particles, films or foils.

26. (Not entered): In a method of manufacturing an electronic package according to claim 18,

wherein, the metallic pads being tightly spaced, the powdered metal is deposited in long, narrow

prints, and melting the metal so that it draws back onto the metallic pads forming metal bumps

on the metallic pads.

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27. (Withdrawn): A method of manufacturing an electronic package for a

plurality of electronic devices to be mounted inside the package, the method comprising:

providing a ceramic base for the package, the ceramic base having a conductive pattern,

+the conductive pattern being suitable for making connections from the plurality of electronic

devices on a first surface of the ceramic base to metallic terminal pads on a second, obverse

surface of the ceramic base;

depositing a metal on the substrate over the metallic terminal pads, the metal having a

melting point over 350 °C, and below the melting point of the metal forming the metallic pads;

melting the metal so that it draws back onto the metallic terminal pads, forming metal

bumps on the terminal metallic pads.

28. (Withdrawn): In a method for manufacturing an electronic package

having metal bumps according to claim 27, wherein the metal is deposited over the metallic

terminal pads is applied in the form of metal particles, films or foils.

29. (Withdrawn): In a method for manufacturing an electronic package for a

plurality of electronic devices according to claim 27, wherein the metal is deposited over the

metallic terminal pads in a powdered form.

30. · (Withdrawn): In a method for manufacturing an electronic package for a

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plurality of electronic devices according to claim 29, wherein the powdered metal is deposited by screen printing.

- 31. (Withdrawn): In a method of manufacturing an electronic package according to claim 30, wherein, the metallic pads being tightly spaced, the powdered metal is deposited in long, narrow prints, and melting the metal so that it draws back onto the metallic pads forming metal bumps on the metallic terminal pads.
- 32. (Withdrawn): In a method for manufacturing an electronic package for a plurality of electronic devices according to claim 27, the improvement comprising:

providing the ceramic base with metallic terminal pads of metals selected from a group consisting of refractory metals and the metals of Groups 8 and 1b of the Periodic Table of Elements and alloys and combinations of those metals;

depositing a lower melting metal selected from the group consisting of aluminum and aluminum alloys, copper and copper alloys, silver and silver alloys, gold and gold alloys, nickel and nickel alloys and combinations of those metals, over the metallic terminal pads; and

melting the lower melting metal so that it draws back onto the metallic terminal pads, forming metal bumps on the metallic terminal pads.

33. (Withdrawn): In the method of manufacturing an electronic package for a

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plurality of electronic devices according to claim 32, wherein the metal of the metallic terminal pads on the ceramic base are selected from a group consisting of chromium, molybdenum, nickel, tungsten, molybdenum/manganese and titanium/tungsten.

- 34. (Withdrawn): In the method of manufacturing an electronic package for a plurality of electronic devices according to claim 33, wherein the metal forming the bumps is selected from the group consisting of silver, gold, silver alloys and gold alloys.
- 35. (Withdrawn): In the method of manufacturing an electronic package for a plurality of electronic devices according to claim 33, wherein the metal forming the bumps comprises copper.
- 36. (Withdrawn): In the method of manufacturing an electronic package for a plurality of electronic devices according to claim 33, wherein the bumps are coated with a barrier metal capable of preventing the bumps from dissolving in molten solder.
- 37. (Withdrawn): In the method of manufacturing an electronic package for a plurality of electronic devices according to claim 36, wherein the barrier metal is coated with a solder aid to enhance solderability

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38. (Withdrawn): A method of manufacturing an electronic package for a

plurality of electronic devices according to claim 27, further comprising connecting the electronic devices to the conductive pattern of the ceramic base; mounting a frame on the base around the electronic devices, and enclosing the electronic devices with a cover attached to the frame.